

Patent Claims

1. Heat exchanger, having at least one heat exchanger block and an insulating vessel which surrounds the heat exchanger, in which securing means are provided for securing the heat exchanger block hanging in the insulating vessel, characterized in that the heat exchanger block (1) is arranged movably in the insulating vessel.
2. Heat exchanger according to Claim 1, characterized in that the lower end of the heat exchanger block (1) can move in at least two spatial directions.
3. Heat exchanger according to Claim 1 or 2, characterized in that the heat exchanger block (1) is suspended in such a manner that it can move freely above its centre of gravity.
4. Heat exchanger according to one of Claims 1 to 3, characterized in that the heat exchanger comprises at least two, preferably at least three heat exchanger blocks (1).
5. Heat exchanger according to Claim 4, characterized in that the heat exchanger blocks (1) have feed and/or discharge lines which lead into a common connection line.
6. Heat exchanger according to one of Claims 1 to 5, characterized in that the securing means have joints (5, 7).
7. Heat exchanger according to Claim 6, characterized in that the securing means have two axes of rotation (6, 9) which lie perpendicular to one another.
8. Heat exchanger according to one of Claims 1 to 7, characterized in that the securing means have a first

element (3), which is fixedly connected to the heat exchanger block (1), and a second element (4), which is articulately connected to the first element (3), the second element (4) being articulately secured in the
5 insulating vessel.

9. Use of a heat exchanger according to one of Claims 1 to 8 in a low-temperature air fractionation plant, in particular as the principal heat exchanger of a low-
10 temperature air fractionation plant.